

What is claimed is:

1. A module battery, comprising:  
cells each having an electric power generating element hermetically sealed in a  
package film; and

5 cell holders on each of which each of the cells is mounted and held,  
wherein the cell holders are formed in configurations so as to allow the cell  
holders to be freely stacked in a plurality of stages while permitting the cells to be  
retained thereon, and so as to allow electrode tabs of the cells to be exposed between the  
cell holders neighboring in a stacking direction.

10 2. A module battery according to claim 1,  
wherein each of the cell holders includes a locate pin, and each of the cells has  
a through-bore through which the locate pin of the cell holder extends.

15 3. A module battery according to claim 1,  
wherein the cell holders neighboring in the stacking direction are structured to  
provide freely connectable capabilities.

20 4. A module battery according to claim 1,  
wherein a plate-shaped heat sink is intervened between the cell holders  
neighboring in the stacking direction.

25 5. A module battery according to claim 1,  
wherein each of the cell holders has a sealing surface which is brought into  
abutting engagement with an outer peripheral terminal of the cell.

30 6. A module battery according to claim 1,  
wherein a sealing member is intervened between abutment surfaces of the cell  
holders neighboring in the stacking direction.

7. A module battery according to claim 1, further comprising:  
a sub-assembly body wherein the cell holders are stacked in a plurality of  
stages;

a module case accommodating the sub-assembly body; and

35 a wedge-shaped spacer fitted between the sub-assembly body and a side wall

portion of the module case.

8. A module battery according to claim 7,  
wherein the wedge-shaped spacer is fitted between a terminal end portion,  
5 facing in the stacking direction, of the sub-assembly body and the side wall of the  
module case.

9. A module battery according to claim 7,  
wherein each of the cell holders is formed in a frame shape so as to allow each  
10 of the cells to be mounted and held, and the electrode tabs of the cell are exposed  
between the cell holders neighboring in the stacking direction.

10. A module battery according to claim 7,  
wherein the cell holders neighboring in the stacking direction are structured to  
15 provide freely connectable capabilities.

11. A module battery according to claim 1, further comprising:  
a sub-assembly body wherein the cell holders are stacked in a plurality of  
stages; and  
20 a module case accommodating the sub-assembly body,  
wherein a space is provided between the sub-assembly body and an inner  
surface of the module case,  
the space is divided into an electrode tab exposure space, in which the  
electrode tabs of the cell are exposed, and the other space, and  
25 the other space serves as a ventilation space to allow atmospheric air to be  
ventilated.

12. A module battery according to claim 11,  
wherein a partition wall causing the space to be divided into the electrode tab  
30 exposure space and the ventilation space is formed with a communicating portion that  
establishes communication between the electrode tab exposure space and the ventilation  
space, and  
the communicating portion is provided with an air filter.

35